1625 N. French Dr., Hobbs. NM 88240

- Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rjo Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

New Well

16. Multiple

N

Depth to Ground water

State of New Mexico

Form C-101 Revised July 18, 2013

2959.2

10/24/2013

Distance to nearest surface water

Spud Date

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505



State

Contractor

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK OR ADD A ZONE Operator Name and Address COG Operating LLC 2208 West Main Street 229137 Artesia, NM 88210 3. Property Name Myox 21 State Com Property Code 4H 7. Surface Location Lot Idn Feet from E/W Line UL - Lot Section Township Range N/S Line Feet From County Р 25S 28E р 190 380 21 South East Eddy **Proposed Bottom Hole Location** UL - Lot Section Township Lot Idn Feet from N/S Line Feet From E/W Line County 25S 28E 330 380 East Eddy Α 16 Α North 9. Pool Information Pool Name Pool Code an LORENZO: **Additional Well Information** 15. Ground Level Elevation 11. Work Type 12. Well Type 13. Cable/Rotary ^{14.} Lease Type

We will be using a closed-loop system in lieu of lined pits

Oil

18003

Proposed Depth

21. Proposed Casing and Cement Program

Distance from nearest fresh water well

Formation

Bone Spring

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5	13.375	48	400	415	
Intrmd	12.25	9.625	36	2430	825	
Pilot Hole Plug1	7.875	-	-	9480	100	9230
Pilot Hole Plug2	7.875	-	-	8300	340	7400
Production	7.875	5.5	17	18003	3010	2130

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~400' w/ fresh water spud mud. Run 13-3/8" 48# H40 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/ 2% CaCl₂ to cement to surface, if necessary. Drill 12-1/4" hole to ~2430' with saturated brine water. Run 9-5/8" 36# J55 LTC casing to TD and cement to surface in one stage.

Drill 7-7/8" pilot hole to 9480', log and plug back with 100 sx cement plug f/ 9230' - 9480' and 340 sx cement plug f/ 7400' - 8300'.

Drill 7-7/8" curve and lateral to 18003' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement in one stage bringing TOC to 2130' (300' overlap)

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Cameron

^{23.} I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION
I further certify that I have complied with 19.15.14.9 (A) NMAC ⊠ and/or 19.15.14.9 (B) NMAC ⊠, if applicate.	Approved By:
Signature:	1, C. Shupard
Printed name: Mayte Reyes	Title: "Geologist" / /
Title: Regulatory Analyst	Approved Date: 10/17/2013 Expiration Date: 10/17/2015

E-mail Address: mreyes1@concho.com

Date: 10/16/2013 Phone: 575-748-6945 Conditions of Approval Attached

State of New Mexico DISTRICT I 1625 N. FRENCEI DR., HOBBS, NN 88240 Energy, Minerals & Natural Resources Department (976) 383-6161 Fee: (976) 393-6720 CONSERVATION DIVISION OIL CONSERVATION DIVISION

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM. 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

11885 SOUTH ST. FRANCIS DR.

Form C-102 Revised August 1, 2011 Submit one copy to apprpriate

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Pax: (505) 334-6170

Santa Fe, New Mexico 87505

□ AMENDED REPORT

DISTRICT IV 11885 S. ST. FRANCIS DR., SANTA FE. NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

Phone: (505) 476-3480 Fax: (505) 476-3482	WELL LOCATION AND	ACREAGE DEDICATION PLAT	
30-015- 4/743	Pool Code 50990	San Lorenzo Pool Name Red Bluff; Bone Sp	ring
Property Code 38521		erty Name STATE COM	Well Number 4H
OGRID No. 229137		ntor Name RATING, LLC	Elevation 2959.2

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	21	25-S	28-E		190	SOUTH	380	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	25-S	28-E		330	NORTH	380	EAST	EDDY
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				
320		-							,

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	DAMO CIVIT HAS BEEN ALL ROVED BY IT	
Y=413 X=576 SECTION 16 SECTION 21	330 Section 1988 Section 1988	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organisation either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a. compulsory pooling order peretofore entered by the division. Signature Date Printed Name MACLE CONCLOCA E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 16, 2013 Date of Survey Signature & Seal of Professional Surveyor
Y=403 X=576	Y=403151.1 N 104.7 E S.L. 380' 190' 1	Certificate No: CHAD HARCROW 17777 W.O: # 13-300 DRAWN BY: VD

SECTION 21, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY NEW MEXICO 600' 170' NORTH NE COR. NW COR. **OFFSET** WELL PAD WELL PAD 2960.7' 2960.7 2960.4 MYOX 21 STATE COM #4H 170' WEST 170' EAST 0 Ф OFFSET OFFSET P 2959.2' 2959.4' ELEV - 2959.2' $LAT = 32.108641^{\circ} N$ $LONG. = 104.084547^{\circ} W$ 170' SOUTH SE COR. SW COR. WELL PAD WELL PAD SECTION LINE **OFFSET** 2957.4' 2958.2 2957.8 ALL FEATURES ARE EXISTING UNLESS OTHERWISE NOTED 600'

DIRECTIONS TO LOCATION

TRAVELING SOUTH ON 285 TURN RIGHT (WEST) APPROX. 0.9 MILE PAST MILE MARKER 9 ONTO A CALICHE RD AND GO APPROX 0.5 MILE; THEN TURN LEFT (SOUTHWEST) AND GO APPROX. 0.2 MILE AND PROPOSED WELL IS APPROX. 890 FEET NORTH.

HARCROW SURVEYING, LLC

1107 WATSON, ARTESIA, N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad_harcrow77@yahoo.com



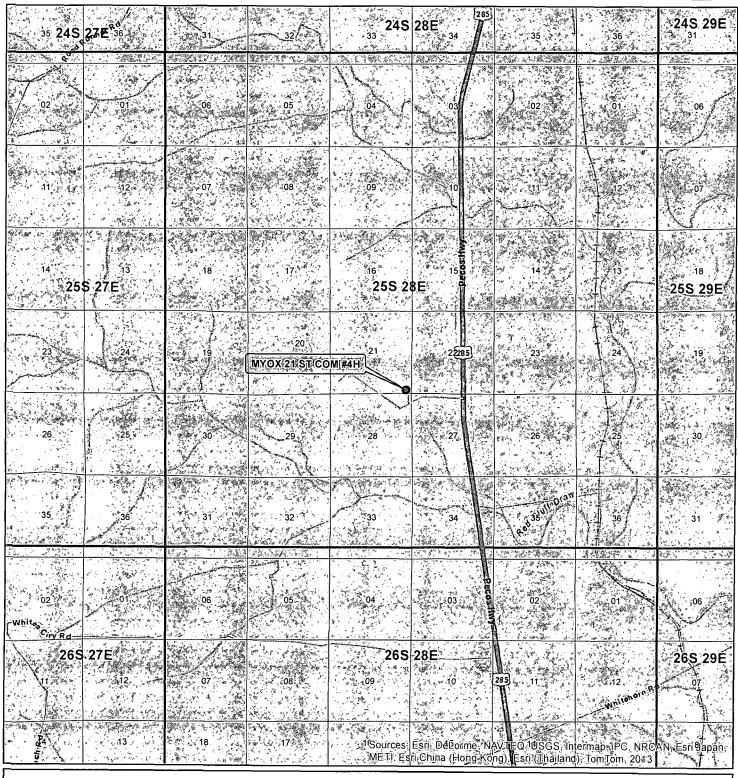
100	0	10	0	200	Feet
	Scale: 1	"= 100°			

COG OPERATING, LLC

MYOX 21 STATE COM #4H WELL LOCATED 190 FEET FROM THE SOUTH LINE AND 380 FEET FROM THE EAST LINE OF SECTION 21, TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

SURVEY DATE:	05/15/2013	PAGE:	1 OF	1
DRAFTING DATE:	05/21/2013			
APPROVED BY: CH	DRAWN BY: VD	FILE:	13-297	

VICINITY MAP



SEC. 21, TWP. 25S, RGE. 28E

SURVEY: N.M.P.M

COUNTY: EDDY STATE: NEW MEXICO DESCRIPTION: MYOX 21 ST COM #4H

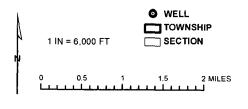
190' FSL, 380' FEL

ELEVATION: 2959.2'

OPERATOR: COG OPERATING LLC

LEASE: MYOX 21 ST COM

W.O. # 13-300

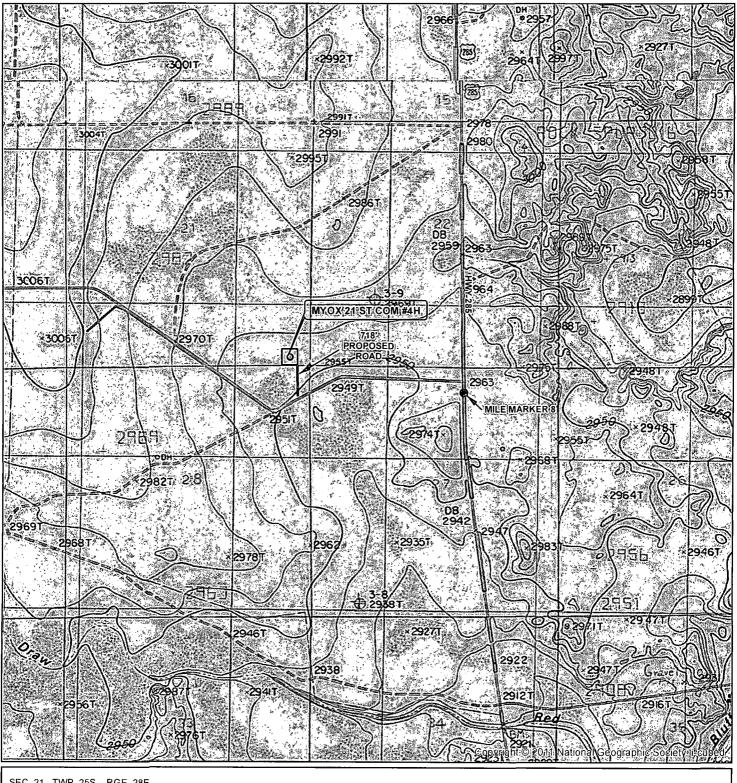


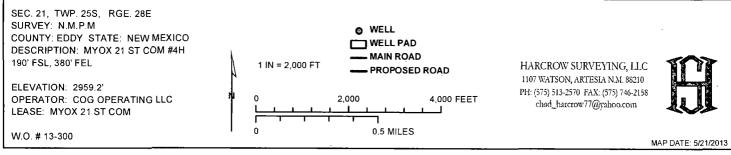
HARCROW SURVEYING, LLC 1107 WATSON, ARTESIA N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad_harcrow77@yahoo.com



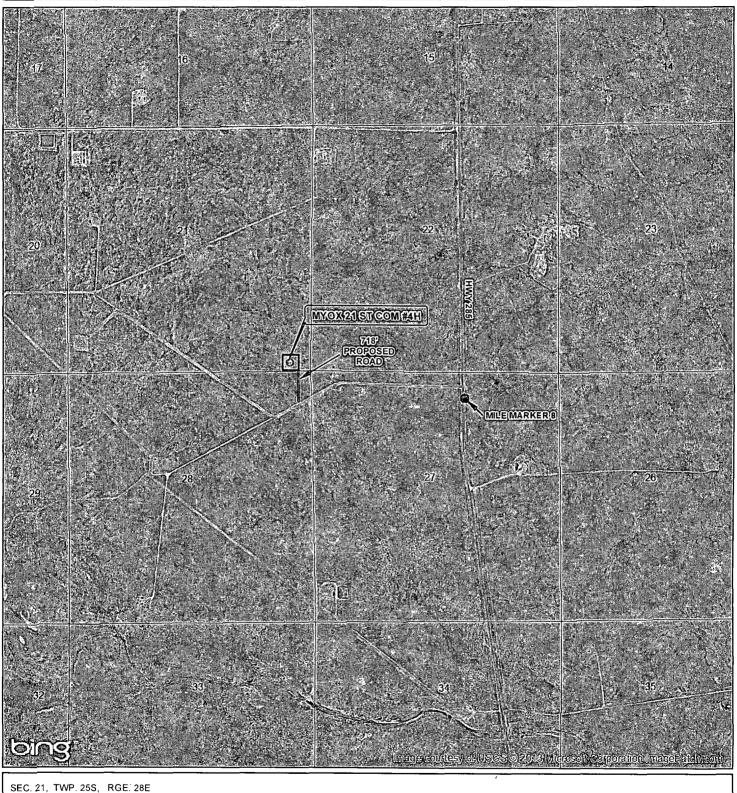
MAP DATE: 5/21/2013

LOCATION VERIFICATION MAP





LOCATION VERIFICATION MAP



SEC. 21, TWP. 25S, RGE. 28E SURVEY: N.M.P.M O WELL COUNTY: EDDY STATE: NEW MEXICO WELL PAD DESCRIPTION: MYOX 21 ST COM #4H - MAIN ROAD 190' FSL, 380' FEL 1 IN = 2,000 FT PROPOSED ROAD ELEVATION: 2959.2° OPERATOR: COG OPERATING LLC 2,000 4,000 FEET LEASE: MYOX 21 ST COM 0.5 MILES W.O. # 13-300

HARCROW SURVEYING, LLC 1107 WATSON, ARTESIA N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad_harcrow77@yahoo.com



MAP DATE: 5/21/2013

Permit Conditions of Approval

API:

30-0/5-4/743

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string